

=> FIL HCAPLUS
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FILE COVERS 1907 - 15 Jun 2005 VOL 142 ISS 25
 FILE LAST UPDATED: 14 Jun 2005 (20050614/ED)

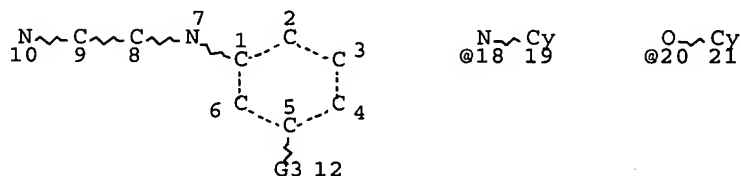
New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

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=> D STAT QUE
 L1

STR

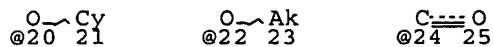
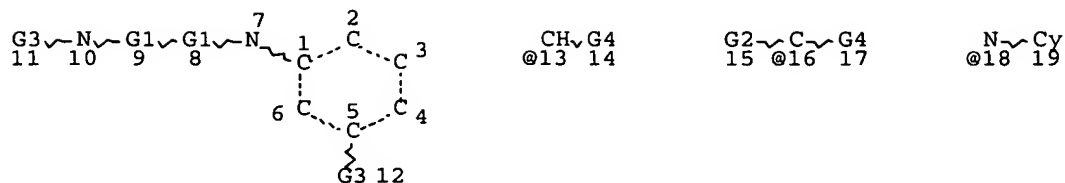


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 DEFAULT ECLEVEL IS LIMITED

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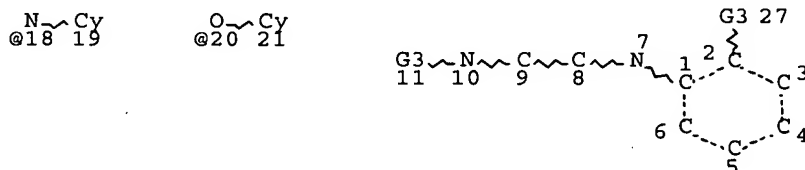
10/690,497



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GRAPH ATTRIBUTES:
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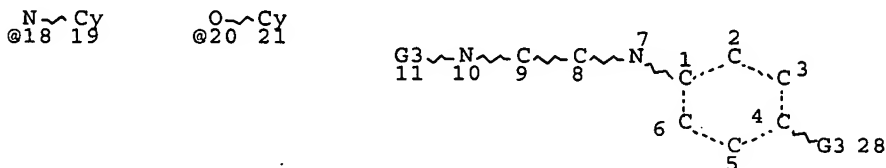
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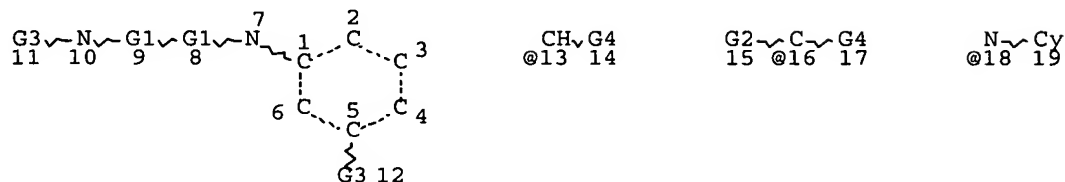


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STEREO ATTRIBUTES: NONE
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 L8 STR



VAR G1=CH2/13/16
 VAR G2=ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU
 VAR G3=18/20/CY
 VAR G4=OH/22/N/24/CY/ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU

NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 25

STEREO ATTRIBUTES: NONE
 L9 5 SEA FILE=REGISTRY SUB=L7 SSS FUL L8
 L10 24 SEA FILE=REGISTRY ABB=ON PLU=ON L4 OR L9
 L11 5 SEA FILE=HCAPLUS ABB=ON PLU=ON L10

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=> D IBIB ABS HITSTR L11 1-5

L11 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2005:300519 HCAPLUS Full-text
 DOCUMENT NUMBER: 142:356096
 TITLE: Stabilization of photochromic systems
 INVENTOR(S): Destro, Mara; Lazzari, Dario; Simon, Dirk; Vitali, Manuele
 PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.; Ciba Specialty Chemicals S.p.A.
 SOURCE: PCT Int. Appl., 87 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005030856	A1	20050407	WO 2004-EP52238	20040920
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.:

EP 2003-103587

A 20030929

AB Photochromic compns. are disclosed comprising a polymeric material, a photochromic dye, a hydroxyphenyl triazine UV absorber and, optionally, a further light stabilizer selected from the sterically hindered amines. These systems provide a reversible photochromic effect and show improved light stabilization and color fastness.

IT 578008-72-7

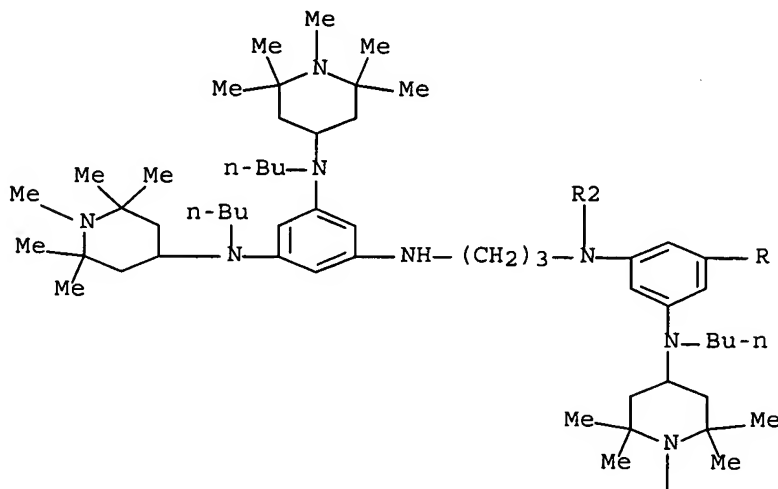
RL: MOA (Modifier or additive use); USES (Uses)

(light stabilizer; stabilization of photochromic systems based on polymers and photochromic dyes with hydroxyphenyltriazine UV absorbers and, optionally, hindered amines)

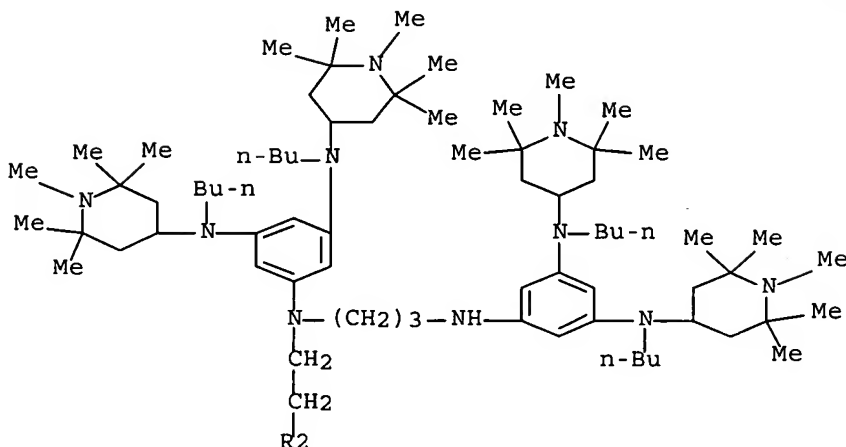
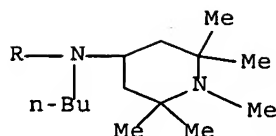
RN 578008-72-7 HCAPLUS

CN 1,3,5-Benzenetriamine, N,N'''-1,2-ethanediylbis[N-[3-[[3,5-bis[butyl(1,2,2,6,6-pentamethyl-4-piperidiny]amino]phenyl]amino]propyl]-N',N''-dibutyl-N',N''-bis(1,2,2,6,6-pentamethyl-4-piperidiny)-(9CI) (CA INDEX NAME)

PAGE 1-A



Me



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2004:370906 HCAPLUS Full-text

DOCUMENT NUMBER: 140:391201

TITLE: Preparation of 2-[2-(phenylamino)ethylaminol]pyridine derivatives as inhibitors of glycogen synthase kinase 3

INVENTOR(S): Nuss, John M.; Subramanian, Sharadha; Wagman, Allan S.

PATENT ASSIGNEE(S): Chiron Corporation, USA

SOURCE: PCT Int. Appl., 76 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004037791	A1	20040506	WO 2003-US33370	20031020
WO 2004037791	B1	20040708		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK,

10/690,497

LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ,
OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2004138273

A1

20040715

US 2003-690497

20031020

PRIORITY APPLN. INFO.:

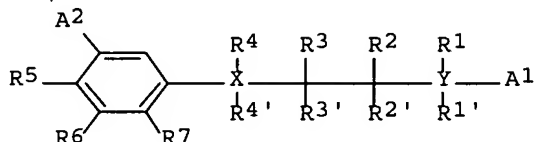
US 2002-420432P

P 20021021

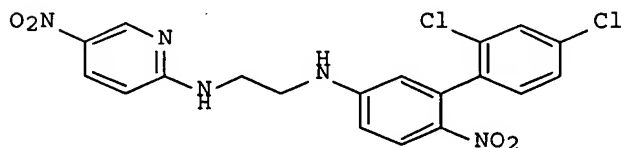
OTHER SOURCE(S):

MARPAT 140:391201

GI



I



II

AB The title compds. I [wherein X and Y = independently N, O, and (un)substituted carbon; A1 and A2 = independently (un)substituted aryl, arylamino, aryloxy, or heteroaryl; R1-R4 = independently H, OH, (un)substituted alkyl, cycloalkyl, etc.; R1'-R4' = independently H or (un)substituted alkyl; R5-R7 = independently H, OH, halo, CO2H, NO2, amino, etc.] or pharmaceutically acceptable salts thereof are prepared as glycogen synthase kinase 3 (GSK3) inhibitors. For example, 2-(2,4-dichlorophenyl)-4-fluoro-1-nitrobenzene (preparation given) was reacted with 2-[(2-aminoethyl)amino]-5-nitropyridine in MeCN in the presence of i-Pr2NEt to give II (90%). Some of compds. I showed inhibitory activity with IC50 of 1 μ M or less against human GSK3. I are useful for the treatment of disorders mediated by GSK3 activity, such as for the treatment of diabetes, Alzheimer's disease, other neurodegenerative disorders, such as Parkinson's disease, Huntington's disease, obesity, atherosclerotic cardiovascular disease, essential hypertension, polycystic ovary syndrome, syndrome X, ischemia, traumatic brain injury, bipolar disorder, immunodeficiency, or cancer (no data).

IT 686338-29-4P 686338-33-0P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(drug candidate; preparation of [(phenylamino)ethylamino]pyridine derivs.

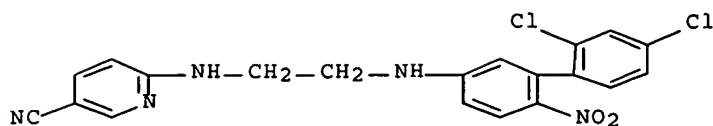
as

GSK3 inhibitors)

RN 686338-29-4 HCAPLUS

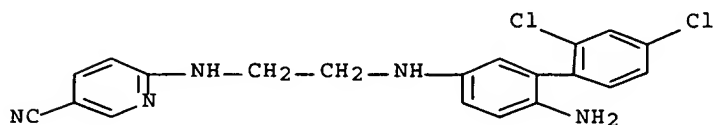
CN 3-Pyridinecarbonitrile, 6-[[2-[(2',4'-dichloro-6-nitro[1,1'-biphenyl]-3-yl)amino]ethyl]amino]- (9CI) (CA INDEX NAME)

10/690,497



RN 686338-33-0 HCAPLUS

CN 3-Pyridinecarbonitrile, 6-[[2-[(6-amino-2',4'-dichloro[1,1'-biphenyl]-3-yl)amino]ethyl]amino]- (9CI) (CA INDEX NAME)



IT 686338-25-0P 686338-27-2P 686338-31-8P
686338-36-3P 686338-38-5P 686338-40-9P
686338-42-1P 686338-44-3P 686338-46-5P
686338-48-7P 686338-50-1P 686338-52-3P
686338-55-6P 686338-57-8P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

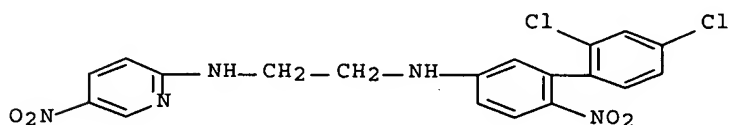
(drug candidate; preparation of [(phenylamino)ethylamino]pyridine derivs.

as

GSK3 inhibitors)

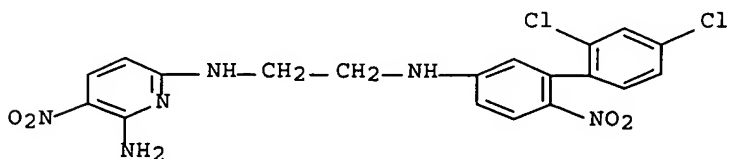
RN 686338-25-0 HCAPLUS

CN 1,2-Ethanediamine, N-(2',4'-dichloro-6-nitro[1,1'-biphenyl]-3-yl)-N'-(5-nitro-2-pyridinyl)- (9CI) (CA INDEX NAME)



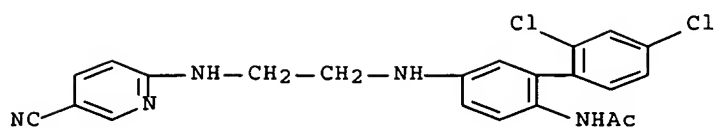
RN 686338-27-2 HCAPLUS

CN 2,6-Pyridinediamine, N6-[2-[(2',4'-dichloro-6-nitro[1,1'-biphenyl]-3-yl)amino]ethyl]-3-nitro- (9CI) (CA INDEX NAME)



RN 686338-31-8 HCAPLUS

CN Acetamide, N-[2',4'-dichloro-5-[[2-[(5-cyano-2-pyridinyl)amino]ethyl]amino][1,1'-biphenyl]-2-yl]- (9CI) (CA INDEX NAME)



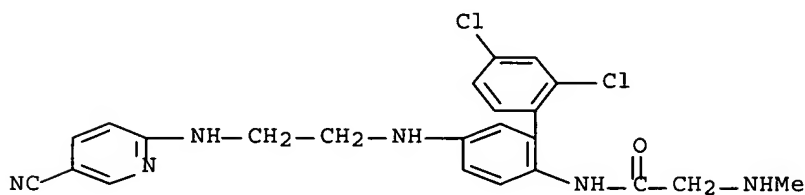
RN 686338-36-3 HCAPLUS

CN Acetamide, N-[2',4'-dichloro-5-[[2-[(5-cyano-2-pyridinyl)amino]ethyl]amino][1,1'-biphenyl]-2-yl]-2-(methylamino)-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 686338-35-2

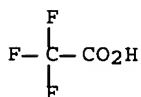
CMF C23 H22 Cl2 N6 O



CM 2

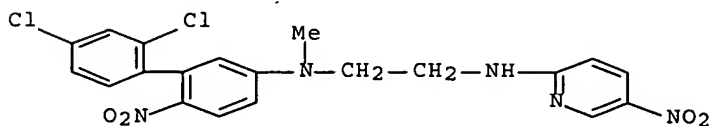
CRN 76-05-1

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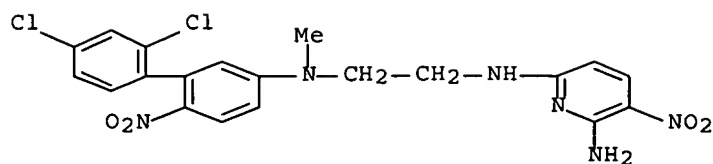
RN 686338-38-5 HCAPLUS

CN 1,2-Ethanediamine, N-(2',4'-dichloro-6-nitro[1,1'-biphenyl]-3-yl)-N-methyl-N'-(5-nitro-2-pyridinyl)- (9CI) (CA INDEX NAME)



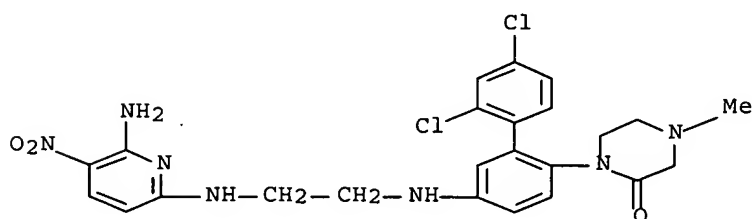
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CN 2,6-Pyridinediamine, N6-[2-[(2',4'-dichloro-6-nitro[1,1'-biphenyl]-3-yl)methylamino]ethyl]-3-nitro- (9CI) (CA INDEX NAME)



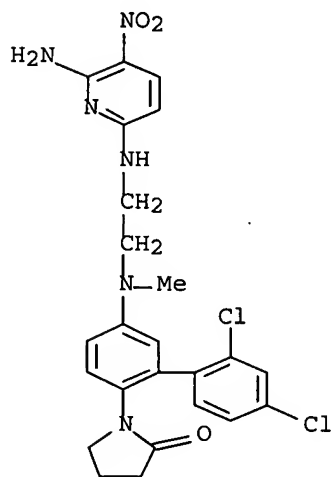
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CN Piperazinone, 1-[5-[[2-[(6-amino-5-nitro-2-pyridinyl)amino]ethyl]amino]-2',4'-dichloro[1,1'-biphenyl]-2-yl]-4-methyl- (9CI) (CA INDEX NAME)



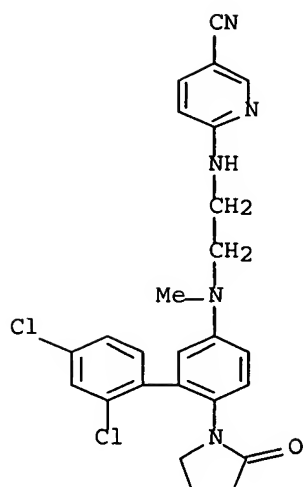
RN 686338-44-3 HCAPLUS

CN 2-Pyrrolidinone, 1-[5-[[2-[(6-amino-5-nitro-2-pyridinyl)amino]ethyl]methylamino]-2',4'-dichloro[1,1'-biphenyl]-2-yl]- (9CI) (CA INDEX NAME)



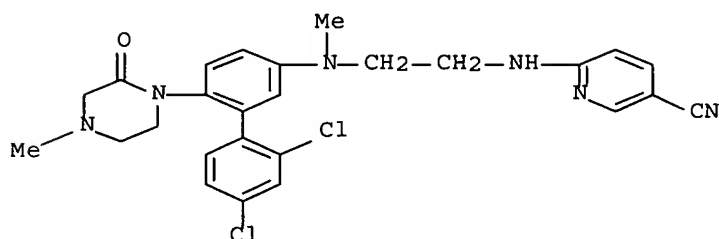
RN 686338-46-5 HCAPLUS

CN 3-Pyridinecarbonitrile, 6-[[2-[[2',4'-dichloro-6-(2-oxo-1-pyrrolidinyl)[1,1'-biphenyl]-3-yl]methylamino]ethyl]amino]- (9CI) (CA INDEX NAME)



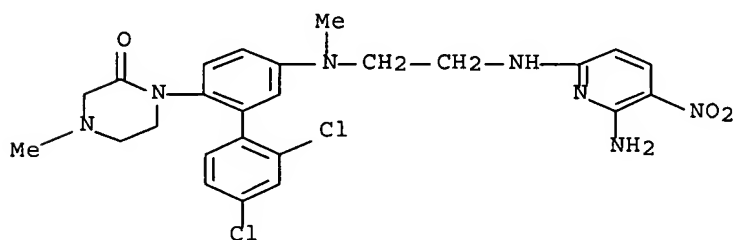
RN 686338-48-7 HCAPLUS

CN 3-Pyridinecarbonitrile, 6-[[2-[[2',4'-dichloro-6-(4-methyl-2-oxo-1-piperazinyl)[1,1'-biphenyl]-3-yl]methylamino]ethyl]amino]- (9CI) (CA INDEX NAME)



RN 686338-50-1 HCAPLUS

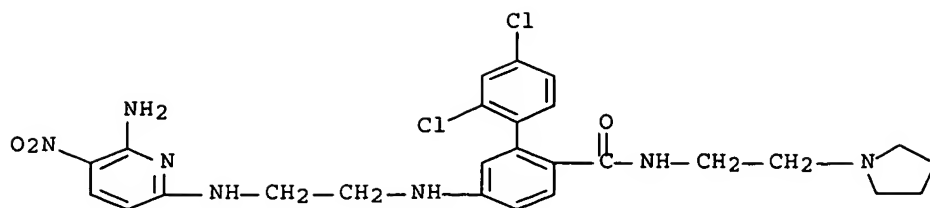
CN Piperazinone, 1-[5-[[2-[(6-amino-5-nitro-2-pyridinyl)amino]ethyl]methylamino]-2',4'-dichloro[1,1'-biphenyl]-2-yl]-4-methyl- (9CI) (CA INDEX NAME)



RN 686338-52-3 HCAPLUS

CN [1,1'-Biphenyl]-2-carboxamide, 5-[[2-[(6-amino-5-nitro-2-pyridinyl)amino]ethyl]amino]-2',4'-dichloro-N-[2-(1-pyrrolidinyl)ethyl]- (9CI) (CA INDEX NAME)

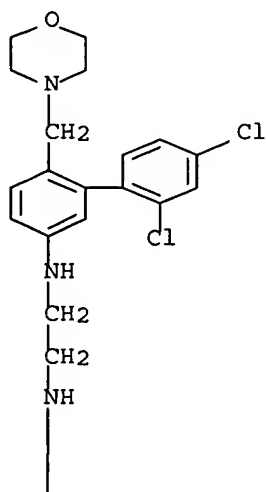
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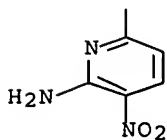
RN 686338-55-6 HCAPLUS

CN 2,6-Pyridinediamine, N6-[2-[[2',4'-dichloro-6-(4-morpholinylmethyl)[1,1'-biphenyl]-3-yl]amino]ethyl]-3-nitro- (9CI) (CA INDEX NAME)

PAGE 1-A

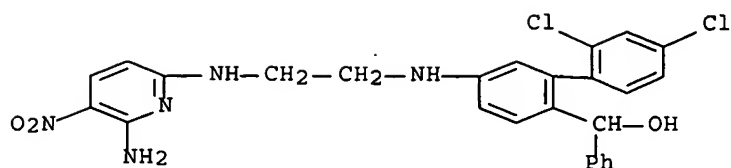


PAGE 2-A



RN 686338-57-8 HCAPLUS

CN [1,1'-Biphenyl]-2-methanol, 5-[[2-[(6-amino-5-nitro-2-pyridinyl)amino]ethyl]amino]-2',4'-dichloro-α-phenyl- (9CI) (CA INDEX NAME)



IT 686338-62-5P 686338-65-8P 686338-67-0P

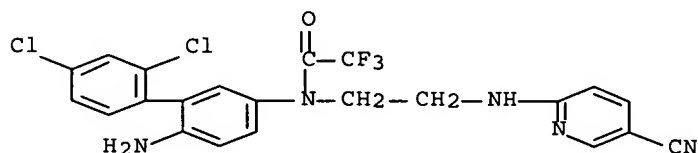
686338-69-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; preparation of [(phenylamino)ethylamino]pyridine derivs. as GSK3 inhibitors)

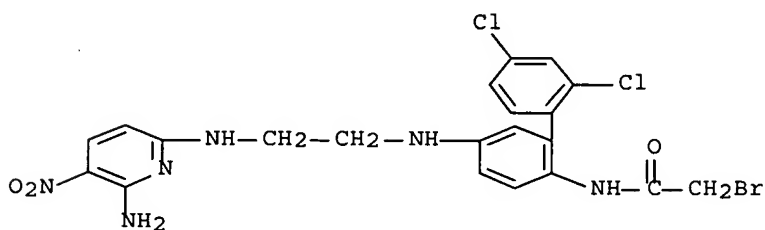
RN 686338-62-5 HCAPLUS

CN Acetamide, N-(6-amino-2',4'-dichloro[1,1'-biphenyl]-3-yl)-N-[2-[(5-cyano-2-pyridinyl)amino]ethyl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)



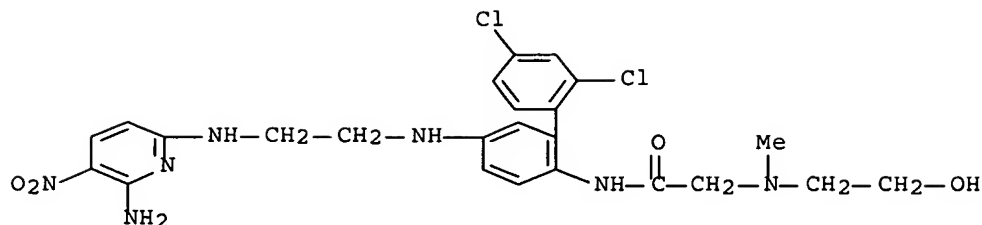
RN 686338-65-8 HCAPLUS

CN Acetamide, N-[5-[[2-[(6-amino-5-nitro-2-pyridinyl)amino]ethyl]amino]-2',4'-dichloro[1,1'-biphenyl]-2-yl]-2-bromo- (9CI) (CA INDEX NAME)



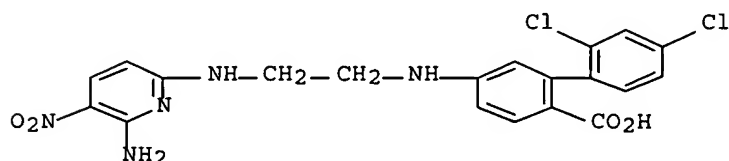
RN 686338-67-0 HCAPLUS

CN Acetamide, N-[5-[[2-[(6-amino-5-nitro-2-pyridinyl)amino]ethyl]amino]-2',4'-dichloro[1,1'-biphenyl]-2-yl]-2-[(2-hydroxyethyl)methylamino]- (9CI) (CA INDEX NAME)



RN 686338-69-2 HCAPLUS

CN [1,1'-Biphenyl]-2-carboxylic acid, 5-[[2-[(6-amino-5-nitro-2-pyridinyl)amino]ethyl]amino]-2',4'-dichloro- (9CI) (CA INDEX NAME)



L11 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2003:633299 HCAPLUS Full-text
 DOCUMENT NUMBER: 139:180867
 TITLE: Hindered amine light stabilizer mixtures for polymers
 INVENTOR(S): Gugumus, Francois
 PATENT ASSIGNEE(S): Switz.
 SOURCE: U.S. Pat. Appl. Publ., 48 pp., Cont.-in-part of U.S.
 Ser. No. 639,293, abandoned.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003153653	A1	20030814	US 2002-278154	20021022
PRIORITY APPLN. INFO.:			EP 1999-810737	A 19990817
			US 2000-639293	B2 20000815
OTHER SOURCE(S):		MARPAT 139:180867		
GI				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB A light stabilizer mixture contains (A) I (R1 is H or C1-4 alkyl, R2 is a direct bond or C1-10 alkylene and n1 is 2 to 50), II (n2 is 2-50), III (n2* is 2-50), or IV (R3, R4 are H, alkyl, or together form an alkylene group, n2** is 1-50); (B) a sterically hindered amine compound; and (C) anatase; with the proviso that the component (B) is different from a compound the compds.

specified in A, and that the composition is free of phosphate or phosphonate flame retardants. The stabilizer mixts. are useful in polyolefin compns.

IT 578008-72-7

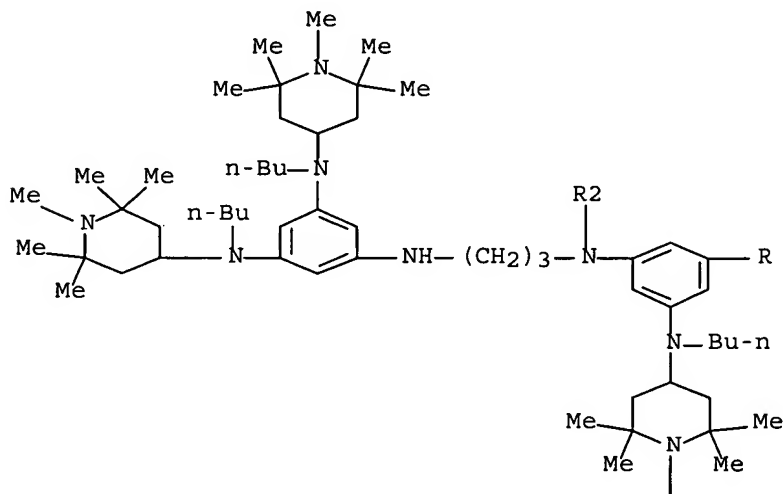
RL: MOA (Modifier or additive use); USES (Uses)

(hindered amine light stabilizer mixts. for polymers)

RN 578008-72-7 HCAPLUS

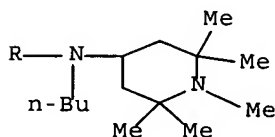
CN 1,3,5-Benzenetriamine, N,N'''-1,2-ethanediylbis[N-[3-[[3,5-bis[butyl(1,2,2,6,6-pentamethyl-4-piperidiny]amino]phenyl]amino]propyl]-N',N''-dibutyl-N',N''-bis(1,2,2,6,6-pentamethyl-4-piperidiny)]- (9CI) (CA INDEX NAME)

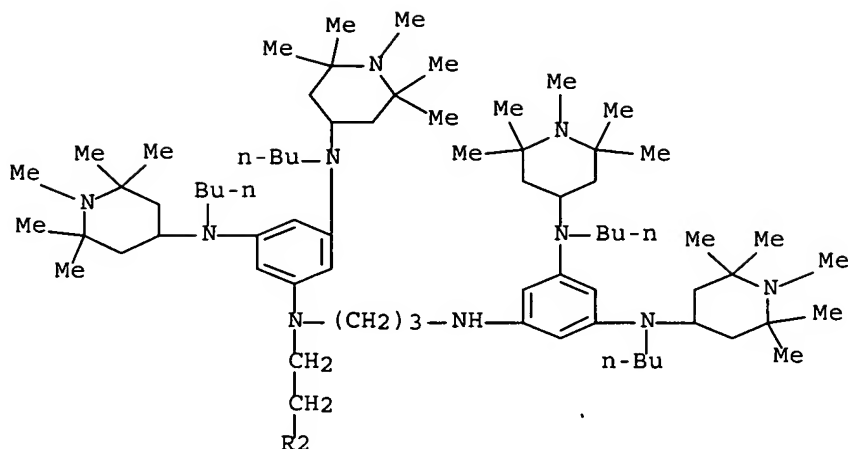
PAGE 1-A



PAGE 2-A

Me





L11 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1993:637866 HCAPLUS Full-text
 DOCUMENT NUMBER: 119:237866
 TITLE: Silver halide photographic photosensitive material
 containing diffusion-resistant dye
 INVENTOR(S): Kagawa, Nobuaki; Kawashima, Yasuhiko; Usagawa,
 Yasushi; Hirabayashi, Shigeto
 PATENT ASSIGNEE(S): Konica Co., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 28 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05011409	A2	19930122	JP 1991-189486	19910704
JP 2897852	B2	19990531		

PRIORITY APPLN. INFO.: JP 1991-189486 19910704

AB The title material contains in ≥ 1 layer(s) of hydrophilic protective colloidal layers coated on a support ≥ 1 Ag salt of methine dyes (Dye) $l_1[-(L)l_2-Sal]l_3$ (Dye = a methine dye structure; L = divalent connective group using atom or atomic group selected from C, N, O, and S as skeleton; Sal = group which forms sparingly soluble salt with Ag ion; $l_1 = 1, 2$; $l_2 = 0, 1$; $l_3 = 1, 2, 3, 4$). The dye can be selected with good absorption spectral characteristics, is diffusion resistant and has superior leaching and bleaching characteristics, and shows no ill effects on photog. characteristics such as fog, desensitization, etc., and no residual color staining even under rapid processing.

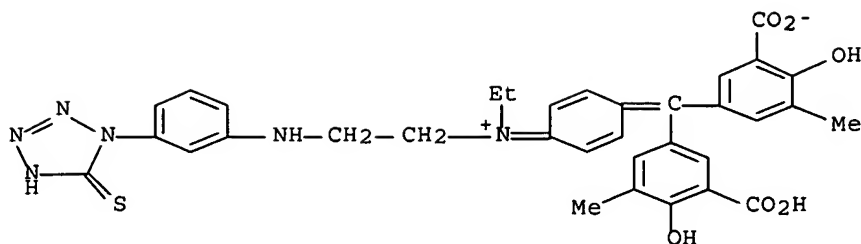
IT 151090-23-2D, silver salt

RL: USES (Uses)

(photog. material with hydrophilic protective colloidal layer containing)

RN 151090-23-2 HCAPLUS

CN Ethanaminium, N-[4-[bis(3-carboxy-4-hydroxy-5-methylphenyl)methylene]-2,5-cyclohexadien-1-ylidene]-2-[[3-(2,5-dihydro-5-thioxo-1H-tetrazol-1-yl)phenyl]amino]-N-ethyl-, inner salt (9CI) (CA INDEX NAME)



L11 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1989:423509 HCAPLUS Full-text

DOCUMENT NUMBER: 111:23509

TITLE: Substituted 3-(4-nitrophenoxy)pyrazoles, their herbicidal use and compositions, and processes and intermediates for their preparation

INVENTOR(S): Moedritzer, Kurt; Lee, Len Fang; Rogers, Michael David; Anderson, Dennis Keith; Singh, Rajendra Kumar; Gaede, Bruce John; Torrence, Lisa Louise

PATENT ASSIGNEE(S): Monsanto Co., USA

SOURCE: Eur. Pat. Appl., 338 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

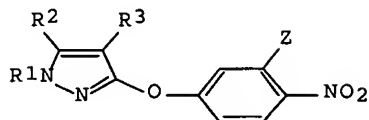
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 295233	A2	19881214	EP 1988-870104	19880607
EP 295233	A3	19890315		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
US 4855442	A	19890808	US 1988-175461	19880413
US 4948902	A	19900814	US 1988-175462	19880413
AU 8817450	A1	19881208	AU 1988-17450	19880607
AU 607225	B2	19910228		
DK 8803086	A	19881209	DK 1988-3086	19880607
FI 8802680	A	19881209	FI 1988-2680	19880607
NO 8802509	A	19881209	NO 1988-2509	19880607
NO 169387	B	19920309		
NO 169387	C	19920617		
BR 8802760	A	19881227	BR 1988-2760	19880607
JP 01025764	A2	19890127	JP 1988-140361	19880607
JP 05075746	B4	19931021		
CN 1033457	A	19890621	CN 1988-103374	19880607
CN 1021191	B	19930616		
ZA 8804050	A	19900228	ZA 1988-4050	19880607
HU 52063	A2	19900628	HU 1988-2946	19880607
HU 204259	B	19911230		
DD 289461	A5	19910502	DD 1988-316491	19880607
PL 156831	B1	19920430	PL 1988-279591	19880607
PL 156730	B1	19920430	PL 1988-279592	19880607
PL 157154	B1	19920529	PL 1988-272883	19880607
NO 8900595	A	19881209	NO 1989-595	19890210
NO 170276	B	19920622		
NO 170276	C	19920930		
NO 8900596	A	19881209	NO 1989-596	19890210

10/690,497

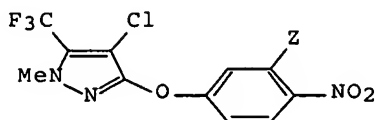
US 4964895	A	19901023	US 1990-471686	19900130
PRIORITY APPLN. INFO.:			US 1987-59431	A 19870608
			US 1987-59712	A 19870608
			US 1988-175460	A 19880413
			US 1988-175461	A 19880413
			US 1988-175462	A 19880413
			US 1988-175463	A 19880413
			NO 1988-2509	A1 19880607

OTHER SOURCE(S): CASREACT 111:23509; MARPAT 111:23509

GI



I



II

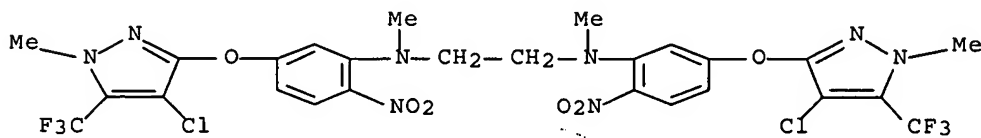
AB Title compds. I [R1 = Me, Et, halomethyl, haloethyl; R2 = Cl, cyano, halomethyl, haloethyl, MeS, EtS, MeS(O), EtS(O), MeS(O)2, EtS(O)2, MeOCH2; R3 = H, halo, NO2; Z = H, substituent of mol. weight ≤300] are prepared as herbicides. 3-Fluoroacetophenone underwent nitration by fuming HNO3 in the 6-position, followed by condensation with 5-trifluoromethyl-4-chloro-3-hydroxy-1-methylpyrazole to give (trifluoromethyl)chloro(nitrophenoxy)methylpyrazole II (Z = Ac). This underwent oximation by NH2OH.HCl, followed by etherification of the oxime with BrCH2CO2Me, to give II (Z = MeOCOCH2ON:CMc) (III). At 11.21 kg/ha postemergence, III gave 100% control of 9/10 tested weeds, including barnyardgrass, velvetleaf, and Pennsylvania smartweed.

IT 121301-17-5P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as herbicide)

RN 121301-17-5 HCAPLUS

CN 1,2-Ethanediamine, N,N'-bis[5-[[4-chloro-1-methyl-5-(trifluoromethyl)-1H-pyrazol-3-yl]oxy]-2-nitrophenyl]-N,N'-dimethyl- (9CI) (CA INDEX NAME)



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